

### CLAIMS

1. Polyolefin compositions comprising (percent by weight):
  - 1) 55-90% of a crystalline propylene homopolymer or copolymer containing up to 15% of ethylene and/or C<sub>4</sub>-C<sub>10</sub>  $\alpha$ -olefin(s) and having a value of MFR (230 °C, 2.16 kg) of at least 25 g/10 min; and
  - 2) 10-45% of a copolymer of ethylene with one or more C<sub>4</sub>-C<sub>10</sub>  $\alpha$ -olefin(s) containing from 10 to 40% of said C<sub>4</sub>-C<sub>10</sub>  $\alpha$ -olefin(s);said compositions having values of MFR equal to or higher than 20 g/10 min, a total content of ethylene of 20% or more, a total content of C<sub>4</sub>-C<sub>10</sub>  $\alpha$ -olefin(s) of 4.5% or more, a ratio of the total content of ethylene to the total content of C<sub>4</sub>-C<sub>10</sub>  $\alpha$ -olefin(s) of 2.3 or more, a total fraction soluble in xylene at room temperature of less than 18 wt% and an intrinsic viscosity value of the fraction soluble in xylene at room temperature of 1.7 dl/g or less.
2. The polyolefin compositions of claim 1, having MFR values equal to or higher than 25 g/10 min.
3. The polyolefin compositions of claim 1, wherein the intrinsic viscosity of the fraction soluble in xylene at room temperature is in the range from 0.8 to 1.5 dl/g.
4. The polyolefin compositions of claim 1, wherein the content of polymer soluble in xylene at room temperature is less than 25%.
5. The polyolefin compositions of claim 1, having a Ductile/Brittle transition temperature equal to or lower than -35 °C.
6. A process for producing the polyolefin compositions of claim 1, carried out in at least two sequential steps, wherein in at least one polymerization step the relevant monomer(s) are polymerized to form component 1) and in the other step the relevant monomers are polymerized to form component 2), operating in each step, except the first step, in the presence of the polymer formed and the catalyst used in the preceding step.
7. The process of claim 6, wherein the polymerization catalyst is a stereospecific Ziegler-Natta catalyst comprising, as catalyst-forming components, a solid component comprising a titanium compound having at least one titanium-halogen bond and an electron-donor compound, both supported on a magnesium halide in active form, and an organoaluminum compound.

8. The process of claim 6, wherein both components 1) and 2) are prepared in gas phase.
9. Injection moulded articles comprising the polyolefin compositions of claim 1.